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Application No.

O9/977,358

PIEPER ET AL.

Examiner

Art Unit

| √ | Rejected |
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| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
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| ÷ | Restricted                     |

| 1 | N | Non-Elected  |  |
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|   | - | Interference |  |

David J Venci

| A | Appeal   |
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| Cla      |   | _                                     | _                                     | ]            | Date   | 3  |  |                |                    |              |
|----------|---|---------------------------------------|---------------------------------------|--------------|--|--|--|----------------|--------------------|--------------|
| Final    | Original  | 9/17/04                               | 3/29/05                               | 8/11/05      | 1/30/06  | 8/28/06                                      | 3/27/07  | 8/3/07         |                    |              |
|          | 1   | N                                     | _                                     | <del> </del> | _  | $\vdash$                                     |  |                |                    |              |
|          | 3<br>4<br>5   | z z z z z z z                         |                                       |              |  | $\vdash$                                     |  |                | _                  | $\vdash$     |
|          | 3   | N                                     |                                       |              | _  |  |  |                |                    |              |
|          | 4   | N                                     |                                       |              |  |  |  |                |                    | $\vdash$     |
|          | 5   | N                                     |                                       |              |  |  |  |                |                    |              |
|          | 6<br>7  | N                                     |                                       |              |  |  | _  |                |                    |              |
| ,        | 7   | N                                     |                                       |              |  |  |  |                |                    |              |
|          | 8   | N                                     |                                       |              |  |  |  |                |                    |              |
|          | 9   | N<br>N                                |                                       |              |  |  |  |                |                    |              |
|          | 40  | N                                     |                                       |              |  |  |  |                |                    |              |
|          | 11  | N                                     |                                       | L            |  |  |  |                |                    |              |
|          | 12  | N                                     |                                       | <u> </u>     | <u> </u>   |  |  | <u> </u>       | $oxedsymbol{oxed}$ |              |
|          | 13  | N                                     |                                       |              |  |  |  | <u> </u>       | L                  | <u> </u>     |
|          | 14  | 2 2 2 2 2 2 2 2 2 2                   | _                                     |              | <u> </u>   | <u> </u>                                     | <u> </u>   | <u> </u>       | <u> </u>           |              |
|          | 15  | N                                     |                                       |              |  | <u> </u>                                     |  | _              |                    |              |
|          | 16  | N                                     |                                       | _            | <u> </u>   | <u> </u>                                     |  |                |                    |              |
|          | 17  | N                                     |                                       | _            | <u> </u>   |  | _  | _              | -                  |              |
|          | 18  | N                                     | <u> </u>                              |              | ├  |  | _  | <u> </u>       |                    | _            |
|          | 18  | N                                     | _                                     | -            |  |  | _  | _              |                    | _            |
|          | 21  | N                                     |                                       | -            |  |  |  | -              |                    | -            |
|          | 22  | N<br>N                                |                                       | ┢            |  | -  |  | ├              |                    |              |
|          | 23  | N.                                    | _                                     |              | $\vdash$   | $\vdash$                                     | $\vdash$   | -              | -                  | -            |
|          | 24  | N                                     | -                                     | <del> </del> | -  | $\vdash$                                     | $\vdash$   |                |                    | $\vdash$     |
|          | 25  | N                                     |                                       | ┼─           | $\vdash$   |  | -  | -              |                    | ┢            |
|          | 26  | N.                                    | -                                     | _            | ┢  | -  | <del> </del>                                     |                |                    |              |
|          | 27  | 1                                     | 1                                     | T            | ╁  | -  | <del>                                     </del> | _              |                    |              |
|          | 28  | 1                                     | 1                                     |              |  |  |  |                |                    |              |
|          | 29  | 1                                     | 1                                     |              |  | _  | _  | ┰              |                    |              |
|          | 30  | 1                                     | 1                                     |              | $\vdash$   | $\vdash$                                     |  |                |                    |              |
|          | 31  | 1                                     | 1                                     |              |  | _  |  | Г              | Г                  | Г            |
|          | 32  | 1                                     | 1                                     | 1            | V  | 1  | 1  | V              |                    |              |
|          | 9<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33 | V                                     | 1                                     |              |  |  |  |                |                    |              |
|          | 34<br>35  | 1                                     | V                                     |              |  |  |  |                |                    |              |
|          | 35  | √                                     | 1                                     | <u>L</u>     | _  |  |  |                |                    |              |
|          | 36<br>37  | N N N N N N N N N N N N N N N N N N N | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |              |  | L  | <u> </u>   |                |                    | L            |
|          | 37  | √                                     | 1                                     | <u> </u>     | _  | <u> </u>                                     |  | <u> </u>       | <u> </u>           | _            |
|          | 38  | 1                                     | 1                                     | ļ            | ļ  | <u> </u>                                     |  | <u> </u>       | <u> </u>           | ļ .          |
|          | 39  | <del></del>                           | _                                     | <u></u>      | _  | <u> </u>                                     | <u> </u>   | $\vdash$       | <u> </u>           | $\vdash$     |
|          | 40  | 1                                     | 1                                     | <u> </u>     | <u> </u>   | <u> </u>                                     | <u> </u>   | $\vdash$       | ┞                  | _            |
|          | 41  |                                       | 7                                     | -            | <del> </del>                                     | <u>.                                    </u> | <u> </u>   | ŀ              | <u> </u>           |              |
|          | 42  | √<br>N                                | <u> </u>                              | -            | -  | <del> </del>                                 | -  | <del> </del> — | ├                  | <del> </del> |
|          | 43<br>44  | N                                     | 1                                     | -            | <del> </del>                                     | <del> </del>                                 | -  | -              | $\vdash$           | $\vdash$     |
|          | 45  | <del>  `</del>                        | 7                                     | <del> </del> | ├  | $\vdash$                                     | $\vdash$   | -              | $\vdash$           | <del> </del> |
| -        | 46  | ├                                     | 1                                     | <del> </del> | -  |  | $\vdash$   | $\vdash$       | $\vdash$           | $\vdash$     |
|          | 47  | ļ                                     | 1                                     | $\vdash$     | -  | Ë  | $\vdash$   |                | $\vdash$           | $\vdash$     |
| <u> </u> | 48  | ├                                     | V                                     | $\vdash$     | <del>                                     </del> |  | -  |                |                    |              |
|          | 49  | $\vdash$                              | 1                                     | $\vdash$     | $\vdash$   | $\vdash$                                     | $\vdash$   | $\vdash$       |                    | $\vdash$     |
|          | 50  | 一                                     | J                                     | $\vdash$     | <del>                                     </del> | $\vdash$                                     | $\vdash$   |                |                    | $\vdash$     |
| 1        |   |                                       | , ,                                   |              |  |  |  |                |                    |              |

| Claim    |  | Date     |   |  |  |              |           |  |              |           |
|----------|--|----------|---|--|--|--------------|-----------|--|--------------|-----------|
|          | ıal  | 4        | 5                                       | 5  |  |              |           | 7  |              |           |
| Final    | Original   | 9/17/04  | 3/29/05                                 | 8/11/05  | 1/30/06  | 8/28/06      | 3/27/07   | 8/3/07   |              |           |
| -        | ō  | 9        | 3                                       | 8  | 1  | 89           | 3         | 8  |              |           |
|          | 51   |          | 1                                       |  |  |              |           |  |              |           |
|          | 52   |          | 1                                       | 1  | 1  | 1            | 1         | 1  |              |           |
|          | 53   |          | 1                                       |  | <u> </u>   |              |           |  |              |           |
|          | 54   | ļ        | 1                                       | _  | _  |              |           |  |              |           |
| -        | 55   | <u> </u> | 7                                       |  | _  |              |           |  |              | _         |
| -        | 57   | -        | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \   | <u> </u>   | _  |              |           | _  | -            | _         |
| -        | 58   | H        | J                                       | _  |  |              |           |  |              |           |
| -        | 59   | $\vdash$ | j                                       |  |  |              | -         |  |              |           |
|          | 60   | -        | 亍                                       | _  | _  |              |           |  | -            |           |
|          | 61   | _        | 1                                       | -  |  |              |           |  |              |           |
|          | 62   |          | 1                                       | V  | 1  | 1            | 1         | 1  |              |           |
|          | 63   |          | V                                       | 1  | 1  | 7            | 1         | 1  |              |           |
|          | 51<br>52<br>53<br>54<br>55<br>56<br>57<br>58<br>59<br>60<br>61<br>62<br>63<br>64<br>65<br>66<br>67<br>74<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87 |          | 777777777777777777777777777777777777777 | ٧  | 1 1 1  | 1 1 1        | 1         | 1 1 1 1 1  |              |           |
|          | 65   |          | V                                       | 7 7 7 7  | V  | V            | 1 1 1 1 1 | V  |              |           |
|          | 66   | _        | 1                                       | 1  | 1  | 1            | 1         | 1  |              |           |
|          | 67   | _        | Ľ                                       | <b>√</b>   | 1  | ٧            | 1         | <b> </b> √                                       |              |           |
|          | 68   | -        | ٧,                                      | ٧  | 1  | V            | V         | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \            | _            | _         |
|          | 70   |          | V<br>J                                  | V  | ľ  | V            |           | <u> </u>   |              | -         |
|          | 71   | ├        | V<br>J                                  |  | $\vdash$   | <del> </del> | ŀ÷        |  |              | <u> -</u> |
|          | 72   | $\vdash$ | J                                       |  |  | _            |           |  |              |           |
|          | 73   |          | j                                       |  |  |              | -         | -  | <del> </del> |           |
| <b></b>  | 74   | -        | 1                                       |  |  |              |           | -  | <u> </u>     |           |
|          | 75   |          | V                                       | $\vdash$   |  |              |           |  | <u> </u>     |           |
|          | 76   |          | 1                                       |  |  |              |           |  |              |           |
|          | 77   |          | 1                                       |  |  |              |           |  |              |           |
|          | 78   | <u> </u> | .√                                      | _  |  | L            |           |  |              |           |
|          | 79   | _        | 1                                       | <u> </u>   |  |              |           |  |              |           |
|          | 80   | -        | ٧,                                      | <u> </u>   | ļ  | ļ            | <u> </u>  |  |              | _         |
|          | 87   | -        | N<br>J                                  | H  | <u> </u>   | -            | _         | ļ  |              | _         |
|          | 83   | $\vdash$ | V<br>V                                  | ·  | -  | -            | ├-        |  |              | _         |
| -        | 84   | _        | j                                       | J  | J  | J            | J         | J  |              |           |
|          | 85   | $\vdash$ | Ì                                       | 1  | 1  | 1            | 1         | 1  |              |           |
|          | 86   |          | 1                                       |  | <del>-</del>                                     | <u> </u>     |           | Ė  |              |           |
|          | 87   |          | 1                                       |  | Г  | Г            |           | Γ  |              |           |
|          | 88<br>89<br>90   |          | 1                                       | 1  | 1  | 1            | 1         | 1  |              |           |
|          | 89   |          | 1                                       | 1  | 1  | 1            | V         | 1  |              |           |
|          | 90   |          |   | _  |  |              | L         |  |              |           |
|          | 91   | -        | 1                                       |  |  | _            | _         | _  | <u> </u>     | <u> </u>  |
| ļ        | 92   |          | 1                                       |  |  |              | $\vdash$  |  | _            | <u> </u>  |
|          | 93<br>94   | -        | 1                                       | -  | $\vdash$   | -            | -         |  |              | _         |
| -        | 95   | -        | V                                       | -  | -  |              | -         |  | 1            | <u> </u>  |
|          | 96   |          | Ì                                       | -  | $\vdash$   | _            | -         | <del>                                     </del> | $\vdash$     | _         |
|          | 97   |          | Ì                                       | <del>                                     </del> | <del>                                     </del> | _            | -         | $\vdash$   | $\vdash$     |           |
| <u> </u> | 98   |          | V                                       | -  |  | Г            |           | Τ  |              |           |
|          | 99   |          | V                                       |  |  |              |           |  |              |           |
|          | 100  |          | V                                       |  |  |              |           |  |              |           |

| Claim         Date           Image: Lip by O. Li |          |  |  |  |  |  |  |  |  |
|--|----------|--|--|--|--|--|--|--|--|
|  | Date     |  |  |  |  |  |  |  |  |
| 101  |          |  |  |  |  |  |  |  |  |
| 102  | $\dashv$ |  |  |  |  |  |  |  |  |
| 103  | ╗        |  |  |  |  |  |  |  |  |
| 104  | $\neg$   |  |  |  |  |  |  |  |  |
| 105  |          |  |  |  |  |  |  |  |  |
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| 107  |          |  |  |  |  |  |  |  |  |
| 108 V V V V V V V V V V V V V V V V V V V  |          |  |  |  |  |  |  |  |  |
| 110  |          |  |  |  |  |  |  |  |  |
| 110  |          |  |  |  |  |  |  |  |  |
| 111  | _        |  |  |  |  |  |  |  |  |
| 112  |          |  |  |  |  |  |  |  |  |
| 114  | $\dashv$ |  |  |  |  |  |  |  |  |
| 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131  | $\dashv$ |  |  |  |  |  |  |  |  |
| 116  | -        |  |  |  |  |  |  |  |  |
| 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131  | $\dashv$ |  |  |  |  |  |  |  |  |
| 118  | $\neg$   |  |  |  |  |  |  |  |  |
| 119 120 121 122 123 124 125 126 127 128 129 130 131  |          |  |  |  |  |  |  |  |  |
| 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131   |          |  |  |  |  |  |  |  |  |
| 121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131  |          |  |  |  |  |  |  |  |  |
| 122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131   |          |  |  |  |  |  |  |  |  |
| 123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131  |          |  |  |  |  |  |  |  |  |
| 124<br>125<br>126<br>127<br>128<br>129<br>130<br>131   |          |  |  |  |  |  |  |  |  |
| 125<br>126<br>127<br>128<br>129<br>130<br>131  |          |  |  |  |  |  |  |  |  |
| 126<br>127<br>128<br>129<br>130<br>131   | 4        |  |  |  |  |  |  |  |  |
| 128<br>129<br>130<br>131   | $\dashv$ |  |  |  |  |  |  |  |  |
| 129<br>130<br>131  | $\dashv$ |  |  |  |  |  |  |  |  |
| 130  |          |  |  |  |  |  |  |  |  |
| 131  |          |  |  |  |  |  |  |  |  |
| 132  | $\dashv$ |  |  |  |  |  |  |  |  |
| 34   | $\neg$   |  |  |  |  |  |  |  |  |
| 133  |          |  |  |  |  |  |  |  |  |
| 134  |          |  |  |  |  |  |  |  |  |
| 135  |          |  |  |  |  |  |  |  |  |
| 136  | $\Box$   |  |  |  |  |  |  |  |  |
| 137  | _        |  |  |  |  |  |  |  |  |
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| 140  |          |  |  |  |  |  |  |  |  |
| 142  | - 1      |  |  |  |  |  |  |  |  |
| 143  |          |  |  |  |  |  |  |  |  |
| 144  | $\dashv$ |  |  |  |  |  |  |  |  |
| 145  | $\dashv$ |  |  |  |  |  |  |  |  |
| 146  | $\dashv$ |  |  |  |  |  |  |  |  |
| 147  | $\neg$   |  |  |  |  |  |  |  |  |
| 148  |          |  |  |  |  |  |  |  |  |
| 149  |          |  |  |  |  |  |  |  |  |
| 150  |          |  |  |  |  |  |  |  |  |